

CLAIMS

We claim:

1. A method for inhibiting cell proliferation in an individual in vivo comprising administering to said individual a composition comprising a RAD51 antisense molecule. ✓
- 5 2. A method for inducing sensitivity to radiation in an individual in vivo comprising administering to said individual a composition comprising a RAD51 antisense molecule.
3. A method for inducing sensitivity to a chemotherapeutic agent in an individual in vivo comprising administering to said individual a composition comprising a RAD51 antisense molecule. ✓
- 10 4. A method for inhibiting the growth of a cancerous cell comprising administering to said cell a composition comprising a RAD51 antisense molecule. ✓
5. A method for inducing sensitivity to radiation in a cancerous cell a composition comprising RAD51 antisense molecule. ✓
- 15 6. A method for inducing sensitivity to a chemotherapeutic agent in a cancerous cell a composition comprising RAD51 antisense molecule. ✓
7. A nucleic acid molecule having a sequence selected from the group consisting of SEQ ID NO:1 and SEQ ID NO:2. ✓
8. The method of Claim 1 further comprising the step of administering radiation.
9. A method of prolonging the survival of an individual comprising administration to said individual a Rad51 antisense molecule. ✓
- 20 10. A method of treating cancer in an individual comprising administration to said individual a Rad51 antisense molecule. ✓

11. A method according to claim 10 wherein said administration comprises localized delivery of said Rad51 antisense molecule.

12. A method according to claim 10 wherein said administration comprises localized delivery of said Rad51 antisense molecule and said method further comprises radiation treatment of said patient.

13. A method according to claim 10 wherein said administration comprises localized delivery of said Rad51 antisense molecule and said method further comprises chemotherapeutic treatment of said patient.

14. A kit for diagnosing and/or treating cancer comprising a Rad51 antisense molecule.

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